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	Application No.	Applicant(s)
Notice of Allowability	10/796,559	BAKER, CLARK R.
	Examiner	Art Unit
	Etsub D. Berhanu	3768
The MAILING DATE of this communication appears on the cover sheet with the correspondence address All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.		
1. This communication is responsive to <u>22 August 2006</u> .		
2. The allowed claim(s) is/are <u>1-25, 27 and 28</u> .		
 3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some* c) None of the: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)). * Certified copies not received: 		
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		
4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.		
5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.		
(a) \square including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached		
1) hereto or 2) to Paper No./Mail Date		
(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date		
Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).		
6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.		
Attachment(s)		
1. Notice of References Cited (PTO-892)	5. Notice of Informal P	atent Application
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	6. Interview Summary	
3. Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date	Paper No./Mail Daf 7. ⊠ Examiner's Amendr	te nent/Comment
4. Examiner's Comment Regarding Requirement for Deposit of Biological Material	8. Examiner's Stateme	ent of Reasons for Allowance

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EXAMINER'S AMENDMENT

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1. An examiner's amendment to the record appears below. Should the changes and/or additions be

unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure

consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with David M.

Hoffman on 23 October 2006, wherein an amendment to claim 9 was discussed in order to provide proper

antecedent basis.

The application has been amended as follows:

Claim 9 has been amended to read:

9. The method of claim 1 wherein said <u>calculating</u> [selecting] weights comprises forming a

combination of one or more parameters selected from the group consisting of a measure of the

degree of arrhythmia of said signals, a measure of the degree of similarity or correlation between

said first and second electromagnetic radiation signals, a measure of the degree of motion artifact

by obtaining a ratio of a current pulse amplitude to the long-term average pulse amplitude of said

signals, a ratio of a current pulse amplitude to the previous pulse amplitude of said signal, and a

ratio of a current pulse period to that of an average pulse period of said signals.

Claim 10 has been amended to read:

10. A device for ensemble averaging signals in a pulse oximeter, comprising:

means for receiving first and second electromagnetic radiation signals from a blood

perfused tissue portion corresponding to two different wavelengths of light;

means for obtaining an assessment of the signal quality of said electromagnetic signals;

means for <u>calculating</u> [selecting] weights for an ensemble averager from a continuous weighting function using said assessment of signal quality; and

an ensemble averager for ensemble averaging said electromagnetic signals using said weights.

Claim 26 has been canceled.

2. The following is an examiner's statement of reasons for allowance: None of the prior art teaches or suggests, either alone or in combination, a method or device wherein weights are calculated for an ensemble averager from a continuous weighting function using an assessment of signal quality from two electromagnetic signals, in combination with the other claimed steps or elements.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Etsub D. Berhanu whose telephone number is 571.272.6563. The examiner can normally be reached on Monday - Friday (Every other Friday off).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Brian Casler can be reached on (571)272-4956. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained

from either Private PAIR or Public PAIR. Status information for unpublished applications is available

through Private PAIR only. For more information about the PAIR system, see http://pair-

direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer

Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR

CANADA) or 571-272-1000.

EDB